BACHELOR OF SCIENCE WITH AN ACTUARIAL MATHEMATICS MAJOR

Actuarial Mathematics Learning Goals
The Actuarial Mathematics program prepares students for success in the actuarial field by promoting the following learning goals:

- Coursework that prepares students for at least 4 exams given by the Society of Actuaries with an expectation that a student will successfully complete 2 exams by graduation.
- Coursework that requires a minor in a business discipline that develops leadership, communication, and teamwork skills, enabling the student to secure one or more actuarial internships prior to graduation.
- Coursework that emphasizes statistical skills and allows the student to complete the SAS Certification program.
- Coursework that emphasizes strong computer skills for business applications.

Bachelor of Science with an Actuarial Mathematics Major Requirements

First-Year Gateway Experience
GFCL 100 Global Foundations of Character and Leadership
GFOB 100 Global Foundations of Organizations and Business
WRIT 106 Writing Workshop
IDEA 101 Bryant IDEA: Innovation and Design Experience For All

Actuarial Mathematics Major Requirements
AM 230 Actuarial Statistics I
AM 231 Actuarial Statistics II
AM 332 Actuarial Statistics III
AM 340 Mathematical Interest Theory I
AM 342 Mathematical Interest Theory II
AM 421 Life Contingencies I
MATH 226 Linear Algebra
MATH 354 Software Application for Mathematics

One Exam Seminar from the following:
AM 393 Exam P Seminar
AM 394 Exam FM Seminar
AM 492 Advanced Actuarial Mathematics Seminar Exam MLC
AM 493 Advanced Actuarial Mathematics Seminar Exam C
AM 494 Advanced Actuarial Mathematics Seminar: Exam MFE

Choose 3 Advanced Topics in Actuarial Mathematics from the following:
AM 333 Advanced Probability
AM 422 Life Contingencies II
AM 440 Actuarial Mathematical Models and Stochastic Calculus
AM 451 Pension Fundamentals

Bachelor of Science with an Actuarial Mathematics Major Requirements

Liberal Arts Core Requirements
ECO 113 Microeconomic Principles
ECO 114 Macroeconomic Principles
LCS 121 Introduction to Literary Studies
MATH 121 Calculus and Analytic Geometry I
MATH 122 Calculus and Analytic Geometry II
MATH 223 Calculus and Analytic Geometry III

Two Humanities Survey Courses

Liberal Arts Distributions - Modes of Thought
Two Social Science Modes of Thought
One Historical Mode of Thought (Upper Division)
One Literary Mode of Thought (Upper Division)
Two Scientific Modes of Thought

Business Minor Requirement

Electives
Subject to programmatic constraints, students may elect to take additional business courses beyond the required minor, not to exceed a combined total of 30 credit hours in the College of Business.

Any student who passes two professional actuarial exams will be able to waive the two credit exam seminar preparation course requirement. The student must show evidence to the Department Chair that two exams were successfully completed to obtain the waiver.

Modes of Thought requirements can be met by appropriate courses in the major.

Include one Lab Science. One science course must be taken at the 300 or 400 level.

A minimum of 124 credit hours required for graduation.